SEQUENCE LISTING

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<120> METHOD FOR INDUCING MAMMARY EPITHELIAL CELL DIFFERENTIATION

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<151> 2003-09-25

<150> 60/413,978
<151> 2002-09-25

<160> 31

<170> PatentIn Ver. 3.3

<210> 1
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 1
Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro
1 5 10

<210> 2
<211> 30
<212> PRT
<213> Homo sapiens

<400> 2
Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Val
1 5 10 15

Gly Asn His Arg Ser Phe Ser Asp Lys Asn Gly Leu Thr Ser
20 25 30

<210> 3
<211> 29
<212> PRT
<213> Bos taurus

<400> 3
Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Leu
1 5 10 15

Asp Ser His Arg Ser Phe Gln Asp Lys His Gly Leu Ala
20 25

<210> 4
<211> 29
<212> PRT
<213> Sus scrofa

<400> 4
Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Ile
1 5 10 15

Asp Asn His Arg Ser Phe His Asp Lys Tyr Gly Leu Ala
20 25

<210> 5
<211> 29
<212> PRT
<213> Rattus rattus

<400> 5
Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Ile
1 5 10 15

Asp Asn His Arg Ser Phe Ser Asp Lys His Gly Leu Thr
20 25

<210> 6
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 6
Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Val
1 5 10 15

Asn His Arg Ser Phe Ser Asp Lys Asn Gly Leu Thr Ser
20 25

<210> 7
<211> 123
<212> PRT
<213> Homo sapiens

<400> 7
Met Ala Arg Gly Ser Ala Leu Leu Leu Ala Ser Leu Leu Leu Ala Ala
1 5 10 15

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Ala Leu Ser Ala Ser Ala Gly Leu Trp Ser Pro Ala Lys Glu Lys Arg
            20                  25                  30

Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Val
        35                  40                  45

Gly Asn His Arg Ser Phe Ser Asp Lys Asn Gly Leu Thr Ser Lys Arg
    50                  55                  60

Glu Leu Arg Pro Glu Asp Asp Met Lys Pro Gly Ser Phe Asp Arg Ser
65                  70                  75                  80

Ile Pro Glu Asn Asn Ile Met Arg Thr Ile Ile Glu Phe Leu Ser Phe
                85                  90                  95

Leu His Leu Lys Glu Ala Gly Ala Leu Asp Arg Leu Leu Asp Leu Pro
            100                 105                 110

Ala Ala Ala Ser Ser Glu Asp Ile Glu Arg Ser
        115                 120
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<210> 8
<211> 123
<212> PRT
<213> Bos taurus

<400> 8

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Met Pro Arg Gly Ser Val Leu Leu Leu Ala Ser Leu Leu Leu Ala Ala
  1               5                  10                  15

Ala Leu Ser Ala Thr Leu Gly Leu Gly Ser Pro Val Lys Glu Lys Arg
            20                  25                  30

Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Leu
        35                  40                  45

Asp Ser His Arg Ser Phe Gln Asp Lys His Gly Leu Ala Gly Lys Arg
    50                  55                  60

Glu Leu Glu Pro Glu Asp Glu Ala Arg Pro Gly Ser Phe Asp Arg Pro
65                  70                  75                  80

Leu Ala Glu Asn Asn Val Val Arg Thr Ile Ile Glu Phe Leu Thr Phe
                85                  90                  95

Leu His Leu Lys Asp Ala Gly Ala Leu Glu Arg Leu Pro Ser Leu Pro
            100                 105                 110

Thr Ala Glu Ser Ala Glu Asp Ala Glu Arg Ser
        115                 120
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<210> 9
<211> 123
<212> PRT
<213> Sus scrofa

<400> 9
Met Pro Arg Gly Cys Ala Leu Leu Leu Ala Ser Leu Leu Leu Ala Ser
1 5 10 15

Ala Leu Ser Ala Thr Leu Gly Leu Gly Ser Pro Val Lys Glu Lys Arg
20 25 30

Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Ile
35 40 45

Asp Asn His Arg Ser Phe His Asp Lys Tyr Gly Leu Ala Gly Lys Arg
50 55 60

Glu Leu Glu Pro Glu Asp Glu Ala Arg Pro Gly Gly Phe Asp Arg Leu
65 70 75 80

Gln Ser Glu Asp Lys Ala Ile Arg Thr Ile Met Glu Phe Leu Ala Phe
85 90 95

Leu His Leu Lys Glu Ala Gly Ala Leu Gly Arg Leu Pro Gly Leu Pro
100 105 110

Ser Ala Ala Ser Ser Glu Asp Ala Gly Gln Ser
115 120

<210> 10
<211> 116
<212> PRT
<213> Homo sapiens

<400> 10
Met Ala Pro Pro Ser Val Pro Leu Val Leu Leu Leu Val Leu Leu Leu
1 5 10 15

Ser Leu Ala Glu Thr Pro Ala Ser Ala Pro Ala His Arg Gly Arg Gly
20 25 30

Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro Val Leu His
35 40 45

Leu Pro Gln Met Gly Asp Gln Asp Gly Lys Arg Glu Thr Ala Leu Glu
50 55 60

Ile Leu Asp Leu Trp Lys Ala Ile Asp Gly Leu Pro Tyr Ser His Pro
65 70 75 80

Pro Gln Pro Ser Lys Arg Asn Val Met Glu Thr Phe Ala Lys Pro Glu
85 90 95

Ile Gly Asp Leu Gly Met Leu Ser Met Lys Ile Pro Lys Glu Glu Asp
100 105 110

Val Leu Lys Ser
115

<210> 11
<211> 60
<212> PRT
<213> Homo sapiens

<400> 11
Ala Pro Ala His Arg Gly Arg Gly Gly Trp Thr Leu Asn Ser Ala Gly
1 5 10 15

Tyr Leu Leu Gly Pro Val Leu His Leu Pro Gln Met Gly Asp Gln Asp
20 25 30

Gly Lys Arg Glu Thr Ala Leu Glu Ile Leu Asp Leu Trp Lys Ala Ile
35 40 45

Asp Gly Leu Pro Tyr Ser His Pro Pro Gln Pro Ser
50 55 60

<210> 12
<211> 60
<212> PRT
<213> Sus scrofa

<400> 12
Ala Pro Val His Arg Gly Arg Gly Gly Trp Thr Leu Asn Ser Ala Gly
1 5 10 15

Tyr Leu Leu Gly Pro Val Leu His Pro Pro Ser Arg Ala Glu Gly Gly
20 25 30

Gly Lys Gly Lys Thr Ala Leu Gly Ile Leu Asp Leu Trp Lys Ala Ile
35 40 45

Asp Gly Leu Pro Tyr Pro Gln Ser Gln Leu Ala Ser
50 55 60

<210> 13
<211> 60
<212> PRT
<213> Rattus rattus

<400> 13
Ala Pro Ala His Arg Gly Arg Gly Gly Trp Thr Leu Asn Ser Ala Gly
1 5 10 15

Tyr Leu Leu Gly Pro Val Leu His Leu Ser Ser Lys Ala Asn Gly Gly
20 25 30

Arg Lys Thr Asp Ser Ala Leu Glu Ile Leu Asp Leu Trp Lys Ala Ile
35 40 45

Asp Gly Leu Arg Tyr Ser Arg Ser Pro Arg Met Thr
50 55 60

<210> 14
<211> 765
<212> DNA
<213> Homo sapiens

<400> 14
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cccgccaccg cacccggacc ccgacgctcc gaacccgggc gcagccgcag ctcaagatgg 180
cccgaggcag cgccctcctt ctcgcctccc tcctcctcgc cgcggccctt tctgcctctg 240
cggggctctg gtcgccggcc aaggaaaaac gaggctggac cctgaacagc gcgggctacc 300
tgctgggccc acatgccgtt ggcaaccaca ggtcattcag cgacaagaat ggcctcacca 360
gcaagcggga gctgcggccc gaagatgaca tgaaaccagg aagctttgac aggtccatac 420
ctgaaaacaa tatcatgcgc acaatcattg agtttctgtc tttcttgcat ctcaaagagg 480
ccggtgccct cgaccgcctc ctggatctcc ccgccgcagc ctcctcagaa gacatcgagc 540
ggtcctgaga gcctcctggg catgtttgtc tgtgtgctgt aacctgaagt caaaccttaa 600
gataatggat aatcttcggc caatttatgc agagtcagcc attcctgttc tctttgcctt 660
gatgttgtgt tgttatcatt taagattttt ttttttggt aattattttg agtggcaaaa 720
taaagaatag caattaaaaa aaaaaaaaca aaaaaaaaaa aaaaa 765

<210> 15
<211> 675
<212> DNA
<213> Bos taurus

<400> 15
cttccgcgtc cccgaggccg cgccatgcgg tgagcgtccc cggccctgcc ccgacccgac 60
tcgacggacg cgcggccccg ccgacacagg acctgcagac accccaggac ccgcagacat 120
cccccgaccc tccgggcccc gctcaagatg cccagaggct ccgtcctgct gctcgcctcc 180
ctgctcctcg cagcggccct ttcagccacc ctgggcctcg ggtcaccggt gaaggagaag 240
agaggctgga ccctgaacag cgctgggtac cttctcggac cacatgcgct cgacagccac 300
aggtcatttc aagacaagca tggcctcgcc ggcaagcggg aactcgagcc tgaagacgaa 360
gcccggccag gaagctttga cagaccactg gcggagaaca acgtcgtgcg cacgataatc 420
gagtttctga ctttcctgca tctcaaagac gccggcgccc tggagcgcct gcccagtctc 480
cccacagcag agtccgcaga agacgccgag aggtcctgag cgggctcccg cgcgtcggtc 540
tccctgtgtc acgcgcagtc gtgctcccag gaggatgccc atcgcatggc aaccgcccca 600
tccccgctgc cctgatgctg tgtccgtacc atttcaggtt tttccccttt ggtcataagt 660
ttcagtggca aaatt 675

<210> 16
<211> 774
<212> DNA
<213> Sus scrofa

<400> 16
acacgtcgaa ggagcccggc tgccgcgctt ccctctctgt gtccccgagg ccacgccatg 60
cggtgagcgc cctccagccc tgcccgaccc aaccggaccc gcgtccccgc cgacagccca 120
ggacccgctg gcacccgggg acccccctggc atctcagacc cgccgacccc cggggcccgc 180
cgacacccca agacccaccg acactccggg acccgccgtc gctcaagatg cccagaggct 240
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cacatgccat cgacaaccac agatcattcc acgacaagta tggccttgct ggcaagcggg 420
aactcgaacc cgaagacgaa gccaggccgg gaggctttga ccggctgcag tcagaggaca 480
aagccatacg cacgataatg gagtttctgg ctttcttgca tctcaaagag gcgggggccc 540
tggggcgcct gcccggcctc ccctcggcag catcctcaga agacgcggga cagtcctgag 600
gtggctccgg catcttcgtc tcggcgttgt cgagctccga gacggtgacg gtctcacgcc 660

agcgaaggca gcgtaaccac ccctgtcgtc cctgcccagt gctgtgttgc tgtggtgtca 720
gatcttcttc ctttgggagt aggtttgagc cgcaaaataa aaactgcagc tgct 774

<210> 17
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 17
tgcagtaagc gaccatccag 20

<210> 18
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 18
agcacaggac acacgtgcac 20

<210> 19
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 19
cgccttcatc tgcaagttta 20

<210> 20
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 20
caggacggtc tgtgcagt 18

<210> 21
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 21
tgcctttcca ggccaccatc 20

<210> 22
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 22
gcgtaagtgg cacgcgtgag 20

<210> 23
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 23
cctggctctt tggggctttc gtg 23

<210> 24
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 24
agcgcgtaga gcgcggccac tg 22

<210> 25
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 25
tgacatcaag aaggtggtga agc 23

<210> 26
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 26
aaggtggaag agtgggagtt gctg 24

<210> 27
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 27
aatggccacg tagcgatcca 20

<210> 28
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 28
gtagctgcag gctcaggttc c 21

<210> 29
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 29
gtggccgtgg tgagcctggc ct 22

<210> 30
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 30
Pro Pro Ala Leu Ala Leu Ala
1 5

<210> 31
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 31
Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro Gln Gln Phe
1 5 10 15

Phe Gly Leu Met
20